

CLAIMS

1. A machine for cleaning vehicle windows of the type which includes a swivelling cross-member which supports a tube
5 terminating in a cleaning nozzle or wiper through which a cleaning fluid is expelled,

characterized in that it comprises:

10 a main body (1) in which are located all receptacles, pumps, electrical-current connections, water inlets and outlets, and control means of the machine as a whole,

means for supporting a cleaning wiper (4) in a raised
15 arrangement relative to the main body (1),

a cleaning wiper (4) which receives, via a flexible tube (3), a duct (16) for the expulsion of cleaning fluid and a duct (17) for the suction of impurities and dirty water,
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means for the preparation and expulsion of the cleaning fluid through the cleaning wiper (4),

means for retaining the cleaning fluid in the central area
25 (20) of the cleaning wiper (4),

means for drawing in and evacuating the cleaning fluid, once it has been used, together with the residues resulting from the cleaning performed,

30 means, based on a microprocessor or a set of microprocessors, for controlling the general operation of all of the parts which make up the machine.

2. A machine for cleaning vehicle windows according to Claim 1, characterized in that the said means for supporting the cleaning wiper is a swivelling cross-member (2) supporting a tube (3) of sufficient length to house the duct (16) for the expulsion of cleaning fluid and the duct (17) for the suction of residues and dirty water, and terminating in the cleaning wiper (4).

3. A machine for cleaning vehicle windows according to the preceding claims, characterized in that the said means for the preparation and expulsion of the cleaning fluid through the cleaning wiper (4) consist of a foam reactor (9) which receives the fluid supplied by a metering pump (8) associated with a detergent reservoir (6) plus water coming from a general water source and supplied at the appropriate pressure by means of a pump (5) and a reducer (7), and supply the expulsion duct (16) with cleaning fluid.

4. A machine for cleaning vehicle windows according to the preceding claims, characterized in that the said means for retaining the said cleaning fluid in the central area (20) of the cleaning wiper (4) consist of a cleaning sponge (22), a leaktight peripheral rubber seal which extends around the outer periphery of the wiper (4), and the said duct (17) for the suction of residues, dust, and the water used in the cleaning.

5. A machine for cleaning vehicle windows according to the preceding claims, characterized in that respective holes (19) are disposed in the cleaning wiper (4) and as the termination of the expulsion duct (16), the holes (19) being distributed longitudinally along the central cavity (20) of the said wiper (4) for the homogeneous expulsion of cleaning fluid inside the wiper (4).

6. A machine for cleaning vehicle windows according to the preceding claims, characterized in that the said wiper (4) has a trigger (18) for its operation and for regulating the volume of cleaning fluid supplied through the wiper (4).

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7. A machine for cleaning vehicle windows according to the preceding claims, characterized in that there is, in the main body (1), a cavity or space (24) for containing the wiper (4) between uses, which space has a drain pipe (23).

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8. A machine for cleaning vehicle windows according to the preceding claims, characterized in that the said means for drawing in and evacuating the cleaning fluid once it has been used, together with the residues resulting from the cleaning performed, consist of the said suction duct (17), the said drain pipe (23), and a suction pump or suction device (12) which sends the cleaning fluid and the residues to a reservoir (10) after passing them through a filter (11) for removing impurities, the said reservoir (10) subsequently being evacuated to the general drain.

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9. A machine for cleaning vehicle windows according to the preceding claims, characterized in that it can be enabled to operate by means of push-buttons (13) or by means of a coin or card prepayment system (13').

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